

ABSTRACT

A distributed system with a time synchronization bridge for maintaining a relatively accurate common sense of time across sub-nets despite the use of a communication device such as a router which causes jitter in packet transfers across sub-nets. A distributed system according to the present teachings includes a set of nodes that communicate via a set of sub-nets. The nodes each have a local clock and mechanisms for maintaining time synchronization among the local clocks by transferring timing data packets via the sub-nets. The timing data packets do not pass through a router. Instead, a time synchronization bridge obtains the timing data packets and in response coordinates time synchronization across the sub-nets.

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